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experience, though in Rep. U. S. Dep. Agric. for 1888 it is said to have the flowers "white or pale blue."

T. D. A. COCKERELL.

LAS CRUCES, N. MEX. Aug. 27, 1893.

Reviews of Foreign Literature.

An Introduction to the Study of the Diatomaceæ. By Frederick Wm. Mills, F. R. M. S., author of Photography applied to the Microscope, with a Bibliography by Julian Deby, F. R. M. S. (London, Iliffe & Son, 3 St. Bede St., Ludgate Circus. Washington, D. C.: The Microscopical Publishing Co., 1893.)

This beautifully printed book is somewhat of a disappointment to the reviewer, and were it not for the extensive bibliography it would be a "twice told tale," and to us not as well told as it could have been. True it is, that in an "Introduction" an author is not supposed to write a monograph upon the subject, yet we feel that the description of what diatoms are, their habitats and their physiological properties is told in a very cursory manner, and hardly full enough for the beginner to get a real knowledge of the plants. We much prefer other articles upon the subject, both for logical arrangement, completeness and lucidity.

The individual chapters upon Structure, Modes of Reproduction, Collecting and Mounting are too brief, and we cannot but feel that the "Introduction" compares very unfavorably with the "Bibliography," which of itself makes the book of paramount value; such a book that no worker in the diatoms can get along without, and one that will prove of inestimable stimulation to the amateur.*

The paper, printing and binding are especially commendable, and the book is well worth the price asked for it. S. E. J.

Index to Recent Literature Relating to American Botany.

Additions to the Preliminary List of the Uredineæ of Ohio. Freda Detmers (Bull. Ohio Agric. Ex. Sta. i. 171).

* We note, however, many gaps in this Bibliography, especially in the numerous papers of the later years.

Echmea Henningsiana, Wittm. und *Bilbergia Schimperiana* Wittm. Fritz Müller (Ber. deutsch. Bot. Gesell. xi. 364-366). *Agave Antillarum*, Desc. O. G. Petersen (Bot. Tidssk. xviii. 266-270; one plate).

Analytical Synopsis of the Groups of Fungi. W. A. Kellerman and Aug. D. Selby (Bull. Ohio Agric. Ex. Sta. i. 203).

Anatomie der Acanthaceengattungen Afromendoncia und Mendoncia. E. Gilg. (Ber. deutsch. Bot. Gesell. xi. 351-364; one plate.)

Aphyllon uniflorum at London, Ont. J. Alston Moffat (Ott. Nat. vii. 99).

A Reader in Botany. Part II. Flower and Fruit. Selected and adapted from well-known authors by Jane H. Newell (Boston, Ginn & Co., 1893, 179 pages, illustrated. Price sixty cents.

As in all her other books, Miss Newell has succeeded in making a very attractive little volume, without sacrificing scientific accuracy or methods. In fact we venture to think that some of the statements quoted from Miss Buckley's Short History of Natural Science would have been better made by the author, or omitted.

To those who have not had the time nor patience to study Darwin's and Müller's work on the Fertilization of Flowers by insects, and are not acquainted with Sprengel's, these chapters will serve as a pleasant introduction, and prove an incentive to further observation and study. The illustrations are all good, and the scientific names are given in nearly all cases.

Bacillus of Cheese—An Aromatic. L. H. Pammel (Iowa Agric. Coll. Ex. Sta., Bull. No. 12, 792).

Bacillus aromaticus, n. sp. is described and figured.

Bibliography of Ohio Botany. W. A. Kellerman (Bull. Ohio Agric. Ex. Sta. i. 180).

Botany at the World's Fair. J. C. Arthur (Bot. Gaz. xviii. 357-364).

Botanical Notes from Texas. E. N. Plank (Gard. and For. vi. 392).

California Flora—Southern Extension of. T. S. Brandegee (Zoë, iv. 199, reprint).

New plants described are *Lupinus pallidus* and *Madia valida*. *Perityle rotundifolia* (Benth.) is concluded to be the rightful name of the plant that has been variously known as *Amauria rotundi-*

folia, Benth., *Perityle Fitchii*, Torr., and *Laphamia peninsularis*, Greene.

Californian Herb-lore—I. Ida M. Blochman (*Erythea*, i. 190, 191).

Notes on *Perezia microcephala* and *Trichostema lanatum*.

Carex flava, L. og *Carex Ederi*, Ehrh. O. Gelert (Bot. Tidssk. xviii. 271, 272).

Contributions à la Flore du Paraguay—Piperacees. C. De Candolle (Mem. Soc. Phys. Hist. Nat. Genéve, xxxii. No. 2).

Eight species of the genus *Piper* are enumerated, of which *P. cinerascens* and *P. fulvescens* are new. Nine species of the genus *Peperomia* are described, one of which *P. psilostachya*, is new. Plates are given of the new species.

Distribution of some Forest-trees in the Southern States—The Chas. Mohr (Gard. and For. vi. 372).

Notes on *Hicoria myristicæformis*, *H. Pecan* and *Quercus Durandi*.

Distribution of some Western Plants—On the.—I. Edw. L. Greene (*Erythea*, i. 181–184).

Notes on species of *Lepidium*, *Matricaria discoidea* and *Madia sativa*.

Early scientific Expeditions to California—I. Willis L. Jepson (*Erythea*, i. 185–190).

Mr. Jepson has here given us a valuable and readable account of the first scientific expedition which visited California—that of the French explorer, La Peyrouse, who touched at Monterey with two frigates in 1786, five years before the visit of the Spanish explorer, Malaspina, with whom came the botanists Hænke and Nee.

Erythrea Centaurium. C. J. S. Bethune (Ott. Nat. vii. 99).

Record of its occurrence at Roach's Point, Lake Simcoe, Ont.

Evolution and Classification. Chas. E. Bessey (Bot. Gaz. xviii. 329–333).

Abstract of Vice-Presidential address before the Section of Botany, A. A. A. S., Madison meeting, August, 1893.

Examination of Glyptodendron, Claypole, and of other so-called Silurian Land Plants from Ohio. Aug. F. Foerste (Am. Geol. xii. 133–141, Pl. VII.).

An analysis of the species *Glyptodendron Eatonense*, Claypole,

originally thought to be a plant and described as such. Comparison with other similar specimens has convinced the author that it is not a plant but a cephalopod, he therefore places this and *G. subcompressum*, Beecher, in the sub-genus *Glyptodendron*, and takes them out of botany into the cephalopod genus *Cyrtoceras*.

He also expresses the opinion that other supposed land plants of the Cincinnati group, viz: *Protostigma sigillarioides*, *Psilophytum gracillimum* and *Sphenophyllum primævum*, described by Lesquereux, are not such. The first may be a fucoid, the second probably a *Dendrograptus*, and the third probably some inorganic marking.

A. H.

Flora of Madison and Vicinity; a preliminary Paper on the Flora of Dane County, Wisconsin. L. S. Cheney and R. H. True (Trans. Wisc. Acad. ix. 45-135; reprinted).

This is an interesting list of 900 species of plants, with localities and habitats, observed and collected mainly by the authors. A feature of the work is the indication of the officinal and non-officinal medicinal species. Specimens illustrating the catalogue have been deposited in the herbarium of the University of Wisconsin.

Flora of Ohio—New Plants for the. Wm. C. Werner (Bull. Ohio Agric. Ex. Sta. i. 235).

Flora of the Bouldin Island. Katharine Brandegee (Zoë, iv. 211, reprint).

Flora of the Niagara Peninsula and Shores of Lake Erie—Notes on the. John Macoun (Journ. and Proc. Hamilton Ass. ix. 78).

Two species new to Canada are noted, *Hemicarpha subsquarrosa* and *Fimbristylis capillaris*.

Flowering Plants of Jamaica—A Provisional List of the Indigenous and Naturalized. William Fawcett (Kingston, 1893).

Folk-lore of Plants—The. Carrie M. Derick (Can. Rec. Sci. v. 332-339).

Hemlock in Minnesota. H. B. Ayres (Gard. and For. vi. 418).

Ilex conocarpa, Reiss. J. D. Hooker (Bot. Mag. t. 7310).
Native of Brazil.

Krugia, eine neuer Myrtaceengattung. I. Urban (Ber. deutsch. Bot. Gesell. xi. 375-376).

Based on *Marliera elliptica*, Griseb., from Trinidad and St. Vincent.

Leguminosæ—*The Morphology of Root-tuberles of*. Albert Schneider (Am. Nat. xxvii. 782; illustrated).

Mamillaria rigidispina, Hildman (Monats. Kakteenk. iii. 111–114; one figure).

Notes on Distribution of and Stations for a few Rare and Interesting Ohio Plants. Wm. C. Werner (Bull. Ohio Agric. Ex. Sta. i. 232).

Notes on the Flora of Long Island. S. E. Jelliffe (Science, xxii. 6).

The author gives a condensed account of what has been written upon the flora of Long Island, the number of species which have been identified, and calls attention to some of the most interesting ones. Reference is also made to the geological features and their probable influence upon the floral distribution.

Nymphaea tuberosa. (Gard. and For. vi. 415).

Ohio Plants—Notes on rare. Aug. D. Selby (Bull. Ohio Agric. Exper. Sta. i. 241).

Persimmon—The. J. T. Rothrock (Forest Leaves, iv. 72, with illustrations of *Diospyros Virginiana*).

Philosophy of Flower Seasons—The. Henry L. Clarke (Am. Nat. xxvii. 769).

Plants of Ohio—New or Rare. W. A. Kellerman (Bull. Ohio Agric. Ex. Sta. i. 241).

Rape Plant—The. Thomas Shaw (U. S. Depart. Agric. Farmers' Bull. No. 11). With illustrations.

Redwood in the Oakland Hills—The. Wm. P. Gibbons (Erythea, i. 161–166).

An account of the isolated forest of *Sequoia sempervirens*, which occurs back of San Francisco Bay.

Rhodochiton volubile. (Garden, xliv. 8, with colored plate.)

Saccaromyces—The Spore-Forming Species of the Genus. J. Christian Bay (Am. Nat. xxvii. 685, reprint).

Scitamineæ nonnullæ nova vel minus cognitæ. O. G. Petersen (Bot. Tidssk. xviii. 260–265; three plates).

Costus Friedrichsenii, n. sp., habitat unknown, *C. Mexicanus* Liebm. ined. of Mexico and *Ischnosiphon pruinosis*, n. sp., habitat unknown, are characterized and illustrated.

Sequoia gigantea—Native Habits of. Gustav Eisen (Zoë, iv. 141–144).

Sierra Nevada Plants in the Coast Range. Katherine Brandegee (Zoë, iv. 168–176).

Record of the occurrence of 95 species and varieties.

Solidago petiolaris (Meehan's Month. iii. 129).

Southwestern Plant Groups—A Characteristic. Henry Clarke (Pop. Sci. Month. xliii. 786).

Illustrations are given of species of *Opuntia*, *Cereus*, *Yucca* and *Agave*.

Systematic and Alphabetical Index to New Species of North American Phanerogams and Pteridophytes published in 1892. Josephine A. Clark (Contr. U. S. Nat. Herbarium, i. 233).

Tennessee Plants—Some new. S. M. Bain (Asa Gray Bulletin, No. 2, 10).

Record of 18 species, additional to Dr. Gattinger's Flora of the State.

Tipularia discolor. H. C. Beardslee (Asa Gray Bulletin, No. 2, 11, 12).

Tubercles d'Aplos tuberosa et d'Helianthus tuberosus—Observations anatomiques sur les. Paul Nypels (Bull. Soc. Bot. Belg. xxxi. 216–230; three plates).

Teratological Notes. J. Burtt Davy (Erythea, i. 192–193).

Observations on *Leptosyne gigantea*, *Agoseris hispida* and *Salvia Columbariae*.

The Violet. O. R. Willis (New York Military Academy Quarterly, iv. 4–6; six figures).

Description of the native violets about Cornwall, N. Y.; several new forms are proposed.

Tonina fluvialis Aubl. V. A. Poulsen (Bot. Tidssk. xviii. 279–292; two plates).

A morphological and anatomical study.

Vegetable Pathology for 1892—Report of the Chief of the Division of. B. T. Galloway (U. S. Depart. Agric., 1893, illustrated).

Vegetation of the Summit of Mt. Diablo. Edw. L. Greene (Erythea, i. 166–179).

A list of 156 species. *Agoseris intermedia* is described as new, and *Malvastrum Fremontii* is transferred to *Malveopsis*.